

ABSTRACT OF THE DISCLOSURE

A process of preparing a catalyst comprising gold on a titanium-containing support. The method involves impregnating a support with a gold compound, a reducing agent, and optionally a promoter metal, wherein the reducing agent and/or the support 5 contains titanium, and optionally heating the impregnated support. The catalyst is useful in the hydro-oxidation of olefins, such as propylene, with oxygen in the presence of hydrogen to olefin oxides, such as propylene oxide.